

Derwent Abstract 078324105

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07832C/01 AIRWICK A.D. AIRWICK 14.07.78  
14.07.78 LU-079981 (24.01.80) A01n-17/14  
"DT 2928-204"

Bait for flies harmful to humans - contains carbohydrate(s), proteins, peptide(s) and/or aminoacid(s), together with caramel as attractant and opt. insecticide.

Bait for use against flies which irritate human beings comprising a mixt. of carbohydrates, peptides and/or aminoacids as nutrients, together with 0.5-10 wt. % of caramel, based on the total wt. of the bait.

#### USES/ADVANTAGES

The bait is highly attractive to flies which normally pester humans and are disease carriers. Caramel is highly attractive to diptera such as flies and has advantages over other baits in that it is a natural prod., is non-toxic and is clean and appetizing. In addition, the bait can be prep'd. not only in a damp form but also in a dry and hydrous condition. Caramel also has a synergistic effect on the activity of other attractants such as cis-tricosene-9.

#### DETAILS

The bait also contains (based on the total wt. of the bait) 0.01-3 wt. % cis-tricosene-9 and 0.1-8 wt. % of an insecticidal carbamate ester or organophosphorus cpd.

C14-B4A, 4-C1, 4-C2, 4-D1, 10-B2B, 12-N2, 12-N3L, 6  
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pref. dimethyl or azamethiphos. Pref. the nutrient comprises a mixt. of carbohydrates contg. at least 25 wt. % proteins and 5-15 wt. % plant protein hydrolycate. The bait is prep'd. in the solid, dry state or is granulated with ave. particle size 0.05-1 mm.

#### PREPARATION

The bait can be prep'd. by (a) grinding a solid mixt. of carbohydrates, proteins, peptides and/or amino acids, together with 0.5-10 wt. % caramel, to give a powder of ave. particle size 0.5-1 mm and (b) adding 0.01-3 wt. % cis-tricosene-9 and 0.1-8 wt. % of an insecticidal carbamate ester or organophosphorus cpd. uniformly to the powder, and then placing the resulting dry powder on a carrier such as paper, PVC, glass, plastic etc. (c) dissolving cis-tricosene-9 and insecticide can be dissolved in a solvent and sprayed on the powdery mixt. of caramel and nutrient and then the volatile solvent removed by evapn.

#### EXAMPLE

A bait contg. 19.0 wt. % sugar, 60.3 wt. % meat meal, 9.5 wt. % plant protein hydrolycate, 4.7 wt. % dimethyl, 5.0 wt. % caramel, 0.8 wt. % red dye, 0.5 wt. % potassium sorbate  
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and 0.2 wt. % cis-tricosene-9 was ground to a homogeneous powder and the powder placed inside a black parallelepipedical carton, the sides of which were cut in slits. The carton was then placed in a room at 25°C at which the fly species *Musca domestica* had been let loose. The number of dead flies in the carton was counted every 15 min. over a period of 2 hrs. The number of dead flies was considerably greater (almost twice as many) than those obt. using a similar bait mixt. contg. no caramel and which comprises 20.2 wt. % sugar, 55.0 wt. % meat meal, 9.5 wt. % plant protein hydrolycate, 4.7 wt. % dimethyl, 0.8 wt. % red dye, 0.5 wt. % potassium sorbate and 0.2 wt. % cis-tricosene-9.  
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DT2928204